

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-241803
 (43)Date of publication of application : 29.08.2003

(51)Int.Cl.

G05B 13/02
 F02D 41/14
 F02D 45/00
 G05B 11/36
 G05B 13/04
 G05B 21/02
 H03M 3/02

(21)Application number : 2002-039094

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(22)Date of filing : 15.02.2002

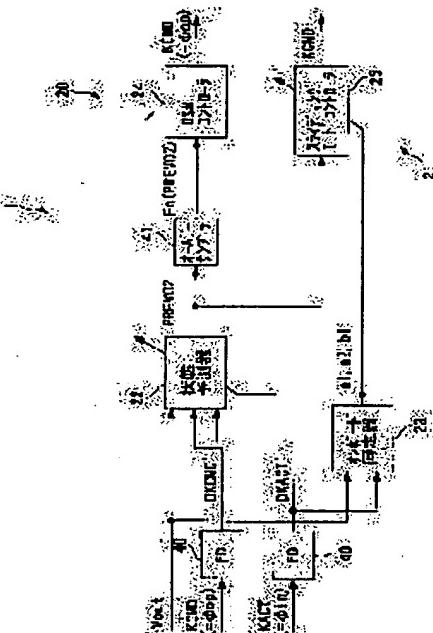
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(54) CONTROL UNIT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a control unit capable of eliminating a control timing gap between input and output of a control object and improving control accuracy when a control object having relatively large phase delay and useless time is controlled.

SOLUTION: An ECU2 of the control unit 1 is provided with a status estimate device 22 and DSM controller 24. The status estimate device 22 calculates an estimated value PREVO2 of an output deviation VO2 with a designated calculating interval ΔT_k at the basis of estimate algorism, and the DSM controller 24 calculates a targeted air-fuel ratio KCMD corresponding to the calculated estimated value PREVO2 at the basis of $\Sigma\Delta$ modulation algorism with a calculating interval ΔT_m shorter than the calculating interval ΔT_k of the estimated value PREVO2.



LEGAL STATUS

[Date of request for examination] 30.11.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]
[Date of extinction of right]